

IN THE SPECIFICATION

Please correct the TITLE of the invention that currently reads: DIALYSIS MEMBRANE HAVING IMPROVED AVERAGE MOLECULAR DISTANCE, to the following:

DIALYSIS MEMBRANE HAVING IMPROVED ABILITY FOR REMOVAL OF MIDDLE MOLECULES

Abstract

A hydrophilic semipermeable hollow-fibre membrane for blood treatment, with an integrally asymmetric structure based on a synthetic polymer. The hollow-fibre membrane possess on its inner surface a separating layer and an adjoining open-pored supporting layer, and has an ultrafiltration rate in albumin solution of 5 to ≤ 25 ml/(h·m²·mmHg). The hollow fibre membrane is free from pore-stabilizing additives and has a maximum sieving coefficient for albumin of 0.005 and a sieving coefficient of cytochrome c that satisfies the equation

$$SC_{cc} \geq 5 \cdot 10^{-5} \cdot UFR_{Alb}^3 - 0.004 \cdot UFR_{Alb}^2 + 0.1081 \cdot UFR_{Alb} - 0.25$$

~~A method for producing such membranes by a coagulation process induced by a non-solvent, in which a spinning solution comprising a synthetic first polymer and possibly a hydrophilic second polymer is extruded through the annular slit of a hollow fibre die to give a hollow fibre, and a coagulation medium that~~

~~initiates coagulation in the interior of the hollow fibre is simultaneously extruded through the central opening of the hollow fibre die, the coagulation medium initiating coagulation in the interior of the hollow fibre for formation of a separating layer on the inner surface of the hollow fibre and formation of the membrane structure, the method of being characterized in that the interior filler contains a polyelectrolyte with negative fixed charges.~~